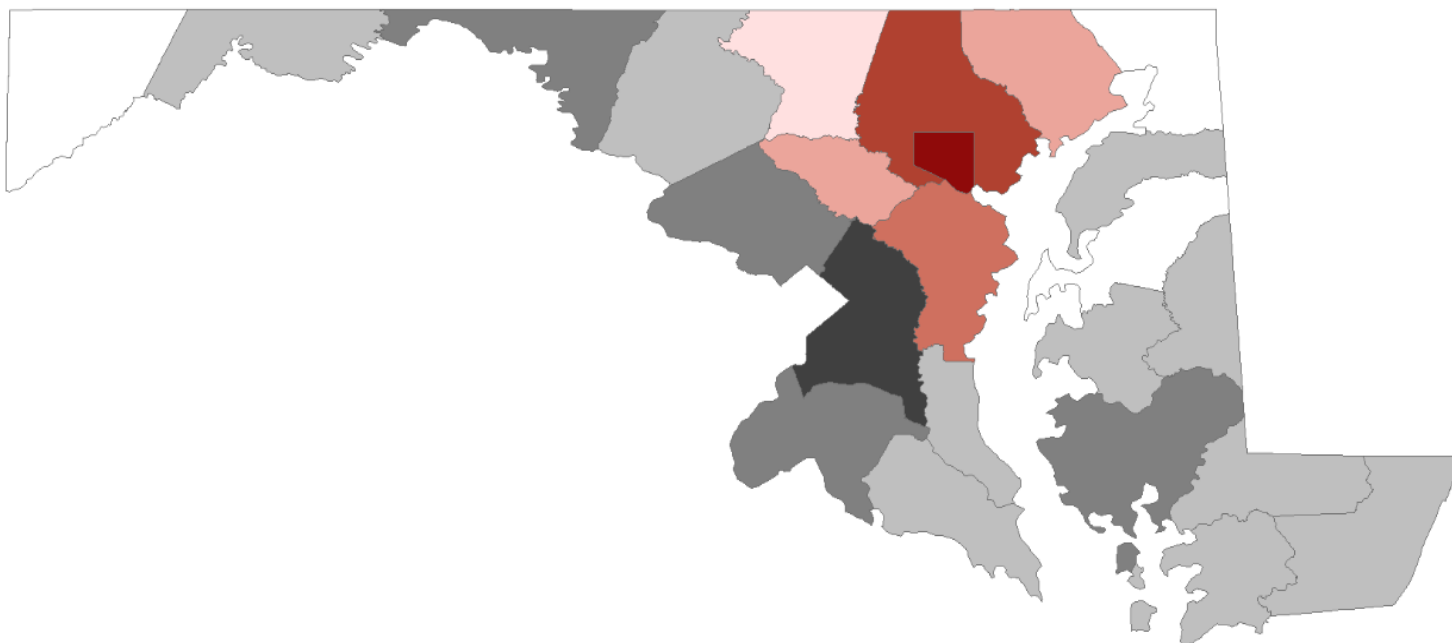


2015



Central Region HIV Annual Epidemiological Profile

Data reported through June 30, 2016

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Epidemiology and Outbreak Response Bureau
Prevention and Health Promotion Administration
Maryland Department of Health and Mental Hygiene
<http://phpa.dhmmh.maryland.gov/OIDEOR/CHSE>
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in COMAR 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing DHMH Form 1140. Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the State Health Department by mailing DHMH Form 1140. Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing DHMH Form 1140. Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the State Health Department to establish electronic reporting.
- Laboratory Chiefs are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland State Health Department, by mailing DHMH Form 4492. Laboratories are encouraged to contact the State Health Department to establish electronic reporting.

Reporting forms and instructions are available on our website:

<http://phpa.dhmfh.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Health Department, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 6/30/2016. Nationally, it has been estimated that 13.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 16.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. It is important to note that surveillance is an ongoing systematic collection, analysis, interpretation, and dissemination of laboratory data. Furthermore, laboratory data are only available for cases receiving medical care, usually only at facilities in Maryland, and only includes test results that have been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department. Caution should be exercised in using the number of living HIV cases without AIDS and in interpreting trends in the number of reported HIV diagnoses.

In addition to providing estimates of prevalent cases by residence at HIV diagnosis, this epidemiological profile includes estimates for HIV cases whose current residence as of 6/30/2016 was in Maryland. Current residence data are restricted to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2016. Restricting

address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may be residents of Maryland but have fallen out of care during the most recent seven years. Current residence utilizes addresses as recent as 2016 but uses laboratory data from 2015 to allow for laboratory reporting.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both new and old diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2015 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 01/01/2015-12/31/2015, as reported by name through 6/30/2016.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on

6/30/2016 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2015 as reported by name through 6/30/2016.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4 cells per microliter of blood. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health and Mental Hygiene's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2016. The Central Region consists of the following jurisdictions: Anne Arundel, Baltimore City, Baltimore, Carroll, Harford and Howard.

Population data by sex, age, and race/ethnicity are from the July 1, 2015 U.S. Census Estimates and by country-of-birth from the 2014 American Community Survey (note the difference in total population due to different source). Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2016 HIV Surveillance Supplemental Report published July 2016. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Figures in tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM (Men who have Sex with Men): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

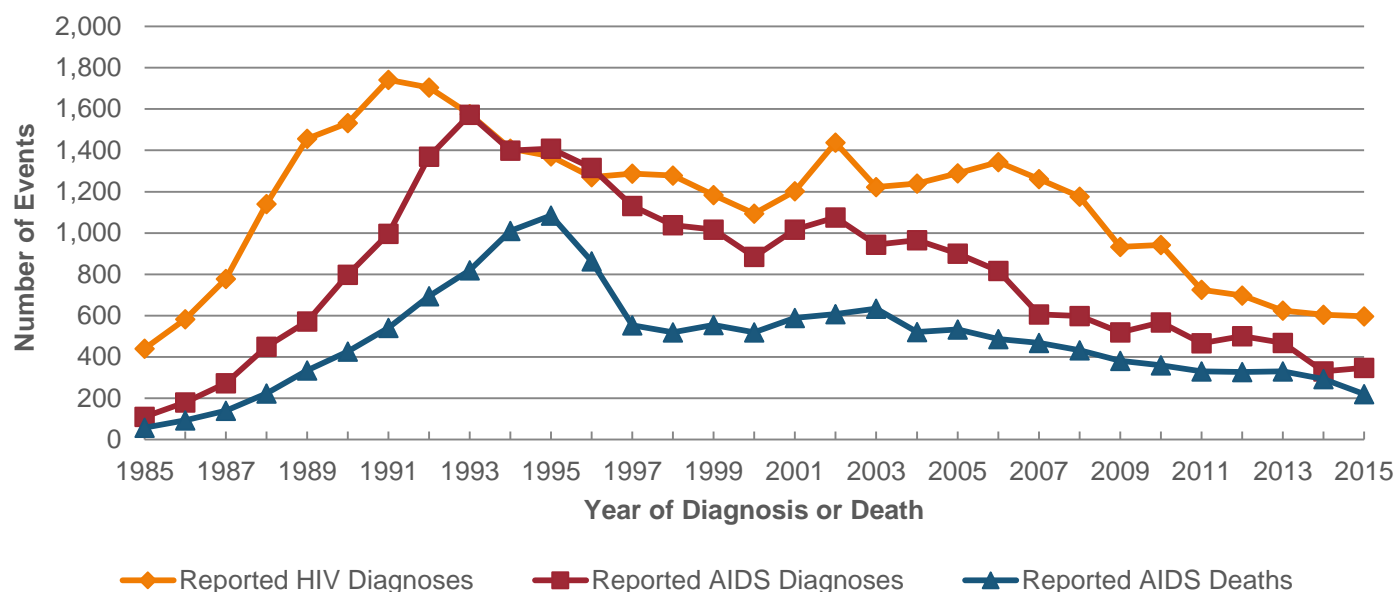
Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Section II – Trends 1985-2015

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2015, Reported through 6/30/2016

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2015 as Reported through 6/30/2016



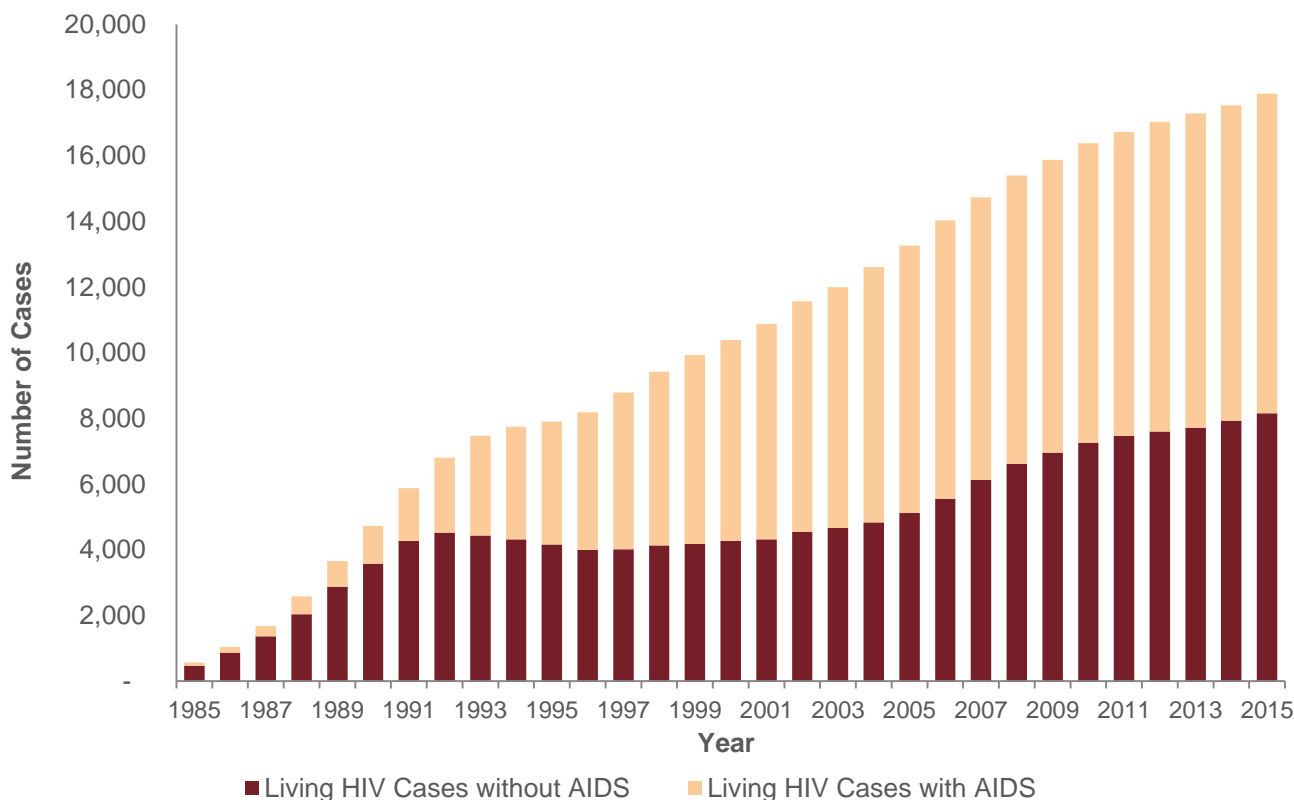
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS	YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS
<1985	223	78	36	2000	1,094	885	519
1985	440	111	58	2001	1,202	1,017	589
1986	583	180	94	2002	1,438	1,075	608
1987	778	274	140	2003	1,222	944	634
1988	1,141	450	223	2004	1,240	966	521
1989	1,457	572	335	2005	1,289	901	534
1990	1,532	798	427	2006	1,343	817	487
1991	1,742	997	542	2007	1,262	606	469
1992	1,705	1,369	695	2008	1,176	599	433
1993	1,575	1,572	820	2009	933	520	381
1994	1,409	1,399	1,011	2010	943	568	360
1995	1,372	1,409	1,085	2011	725	467	330
1996	1,270	1,315	864	2012	697	501	327
1997	1,287	1,131	554	2013	625	468	331
1998	1,279	1,039	519	2014*	605	330	293
1999	1,184	1,017	555	2015*	597	348	220
				TOTAL	35,368	24,723	14,994

*2014-2015 reported AIDS deaths are preliminary

Figure 2 – Trends in Living HIV Cases, 1985-2015, Reported through 6/30/2016

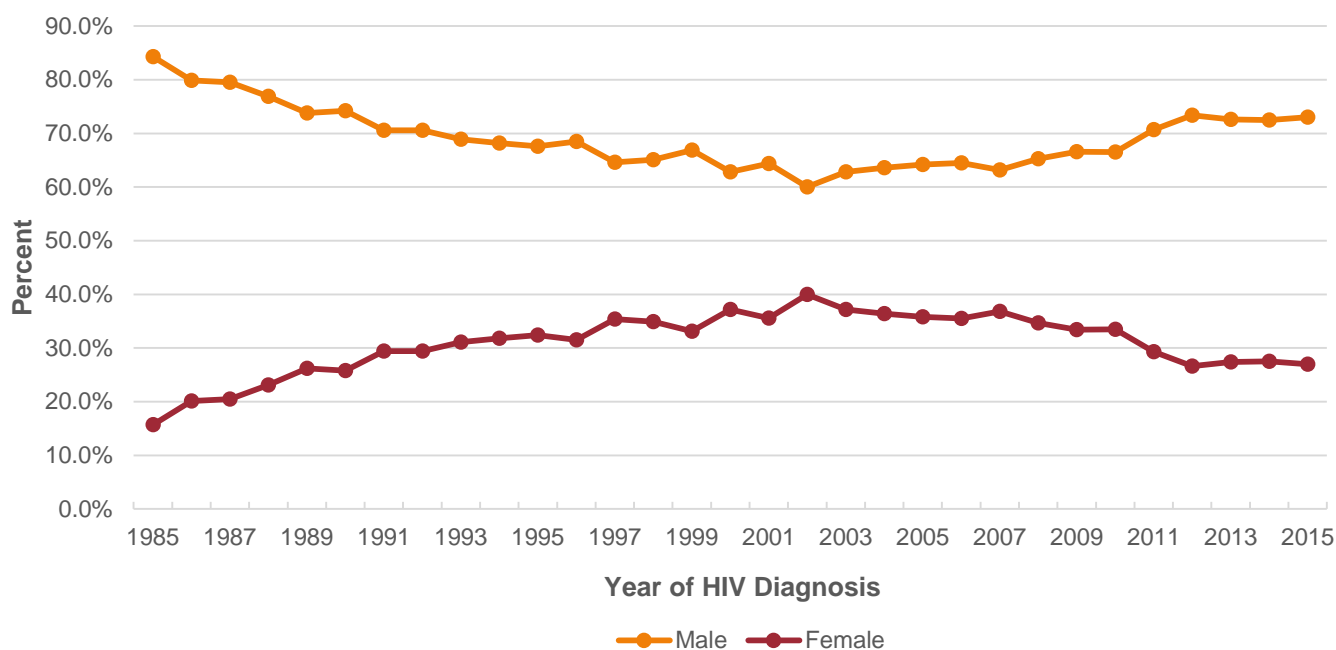
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2015, as Reported through 6/30/2016



YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES	YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES
1985	473	95	568	2000	4,269	6,121	10,390
1986	867	181	1,048	2001	4,323	6,549	10,872
1987	1,364	316	1,680	2002	4,554	7,016	11,570
1988	2,041	543	2,584	2003	4,670	7,326	11,996
1989	2,882	780	3,662	2004	4,837	7,771	12,608
1990	3,580	1,151	4,731	2005	5,128	8,138	13,266
1991	4,271	1,606	5,877	2006	5,562	8,469	14,031
1992	4,525	2,280	6,805	2007	6,130	8,606	14,736
1993	4,440	3,032	7,472	2008	6,622	8,772	15,394
1994	4,325	3,421	7,746	2009	6,963	8,911	15,874
1995	4,161	3,745	7,906	2010	7,265	9,119	16,384
1996	3,994	4,196	8,190	2011	7,467	9,256	16,723
1997	4,017	4,773	8,790	2012	7,607	9,430	17,037
1998	4,136	5,293	9,429	2013	7,718	9,567	17,285
1999	4,180	5,755	9,935	2014	7,930	9,604	17,534
				2015	8,160	9,732	17,892

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2015, Reported through 6/30/2016

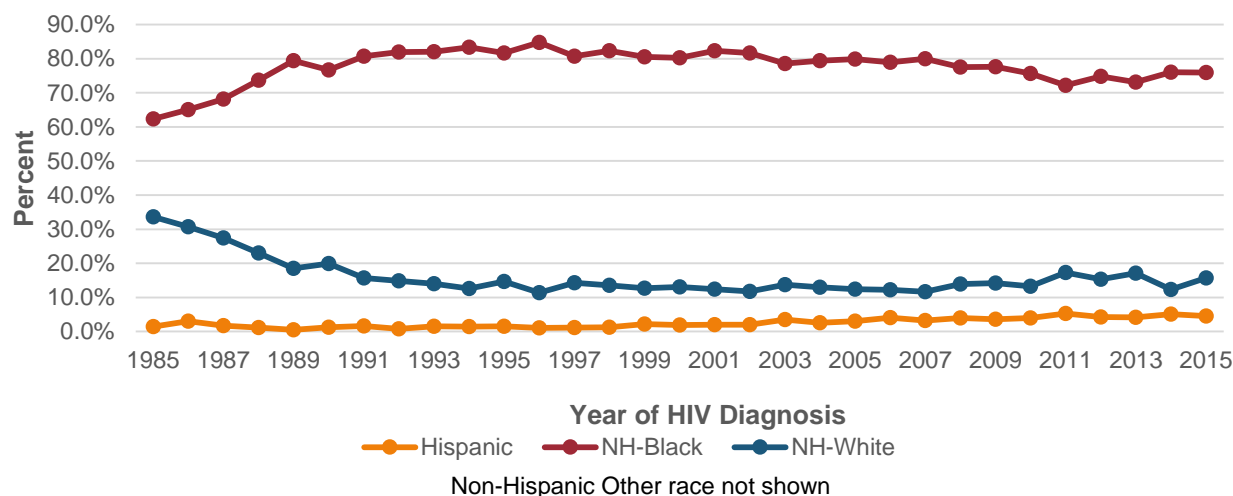
Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES			YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES		
	No.	% Male	% Female		No.	% Male	% Female
<1985	221	86.0%	14.0%	2000	1,087	62.8%	37.2%
1985	432	84.3%	15.7%	2001	1,193	64.4%	35.6%
1986	576	79.9%	20.1%	2002	1,429	60.0%	40.0%
1987	762	79.5%	20.5%	2003	1,220	62.8%	37.2%
1988	1,119	76.9%	23.1%	2004	1,235	63.6%	36.4%
1989	1,429	73.8%	26.2%	2005	1,288	64.2%	35.8%
1990	1,495	74.2%	25.8%	2006	1,338	64.5%	35.5%
1991	1,705	70.6%	29.4%	2007	1,229	63.2%	36.8%
1992	1,660	70.6%	29.4%	2008	1,168	65.3%	34.7%
1993	1,530	68.9%	31.1%	2009	927	66.6%	33.4%
1994	1,379	68.2%	31.8%	2010	941	66.5%	33.5%
1995	1,353	67.6%	32.4%	2011	723	70.7%	29.3%
1996	1,249	68.5%	31.5%	2012	695	73.4%	26.6%
1997	1,277	64.6%	35.4%	2013	624	72.6%	27.4%
1998	1,263	65.1%	34.9%	2014	603	72.5%	27.5%
1999	1,169	66.9%	33.1%	2015	597	73.0%	27.0%
				TOTAL	34,916	68.4%	31.6%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2015, Reported through 6/30/2016

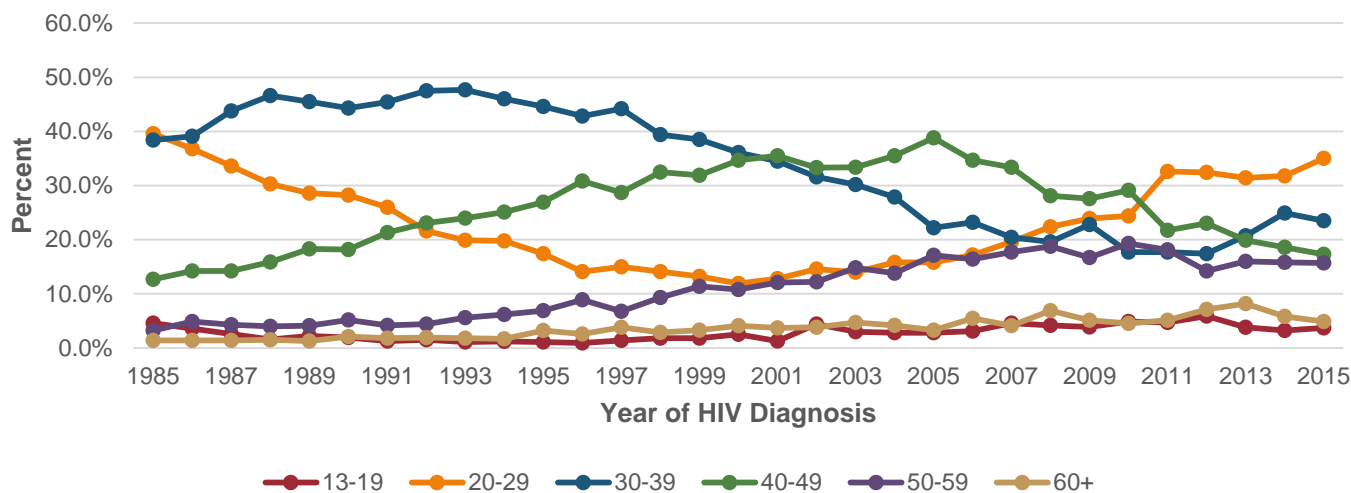
Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES				
	No.	% Hispanic	% Non-Hispanic Black, only	% Non-Hispanic White, only	% Non-Hispanic Other Race
<1985	221	2.7%	53.8%	41.2%	2.3%
1985	432	1.4%	62.3%	33.6%	2.8%
1986	576	3.0%	65.1%	30.7%	1.2%
1987	762	1.7%	68.2%	27.4%	2.6%
1988	1,119	1.2%	73.7%	23.0%	2.1%
1989	1,429	0.5%	79.4%	18.5%	1.7%
1990	1,495	1.3%	76.7%	19.9%	2.1%
1991	1,705	1.6%	80.7%	15.7%	2.0%
1992	1,660	0.8%	81.9%	14.9%	2.3%
1993	1,530	1.5%	82.0%	14.0%	2.5%
1994	1,379	1.4%	83.4%	12.6%	2.6%
1995	1,353	1.5%	81.7%	14.7%	2.1%
1996	1,249	1.1%	84.8%	11.4%	2.6%
1997	1,277	1.2%	80.7%	14.3%	3.9%
1998	1,263	1.3%	82.3%	13.5%	2.9%
1999	1,169	2.2%	80.5%	12.7%	4.5%
2000	1,087	1.9%	80.3%	13.1%	4.7%
2001	1,193	2.0%	82.3%	12.4%	3.3%
2002	1,429	2.0%	81.7%	11.8%	4.6%
2003	1,220	3.5%	78.6%	13.7%	4.2%
2004	1,235	2.6%	79.4%	13.0%	5.0%
2005	1,288	3.0%	79.9%	12.4%	4.7%
2006	1,338	4.1%	78.9%	12.2%	4.8%
2007	1,229	3.2%	80.0%	11.7%	5.1%
2008	1,168	4.0%	77.5%	13.9%	4.6%
2009	927	3.6%	77.6%	14.2%	4.6%
2010	941	4.0%	75.7%	13.3%	7.0%
2011	723	5.3%	72.2%	17.3%	5.3%
2012	695	4.3%	74.8%	15.3%	5.6%
2013	624	4.2%	73.1%	17.1%	5.6%
2014	603	5.1%	76.0%	12.3%	6.6%
2015	597	4.5%	75.9%	15.7%	3.9%
TOTAL	34,916	2.3%	78.7%	15.4%	3.6%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2015, Reported through 6/30/2016

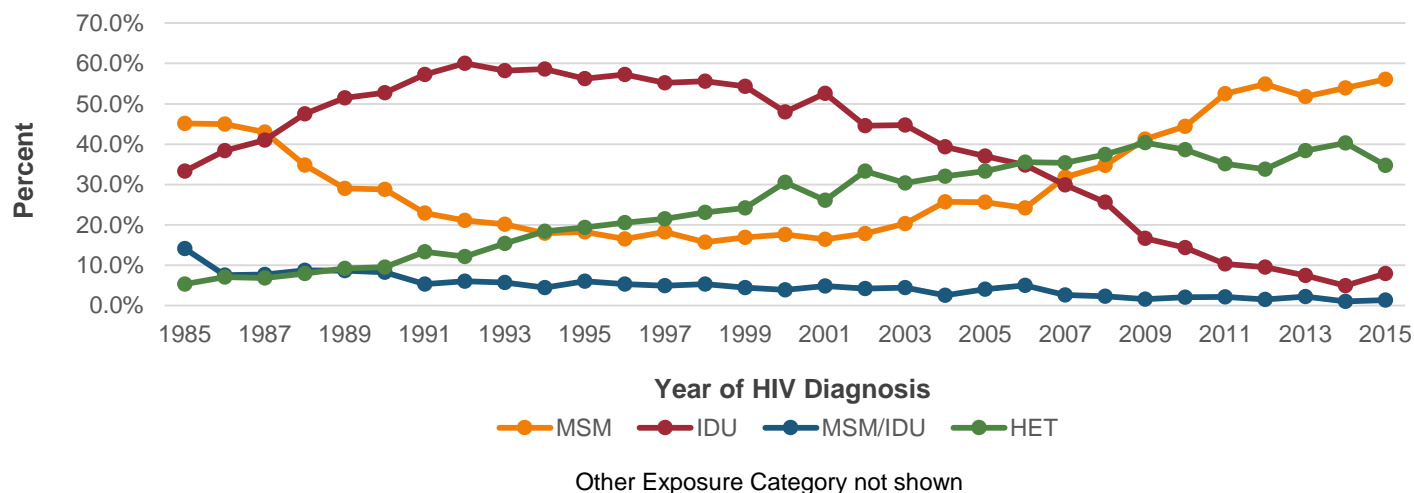
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	REPORTED ADULT/ADOLESCENT HIV DIAGNOSES						
	No.	% Age 13-19	% Age 20-29	% Age 30-39	% Age 40-49	% Age 50-59	% Age 60+
<1985	221	5.9%	43.4%	31.2%	13.1%	5.9%	0.5%
1985	432	4.6%	39.6%	38.4%	12.7%	3.2%	1.4%
1986	576	3.6%	36.8%	39.1%	14.2%	4.9%	1.4%
1987	762	2.6%	33.6%	43.8%	14.2%	4.3%	1.4%
1988	1,119	1.6%	30.3%	46.6%	15.9%	4.0%	1.5%
1989	1,429	2.2%	28.6%	45.5%	18.3%	4.1%	1.3%
1990	1,495	1.9%	28.2%	44.3%	18.2%	5.2%	2.1%
1991	1,705	1.3%	26.0%	45.4%	21.3%	4.2%	1.8%
1992	1,660	1.5%	21.6%	47.5%	23.1%	4.4%	1.9%
1993	1,530	1.1%	19.9%	47.7%	24.0%	5.6%	1.8%
1994	1,379	1.2%	19.8%	46.0%	25.1%	6.2%	1.7%
1995	1,353	1.1%	17.4%	44.6%	26.9%	6.9%	3.2%
1996	1,249	0.9%	14.1%	42.8%	30.8%	8.9%	2.6%
1997	1,277	1.4%	15.0%	44.2%	28.7%	6.8%	3.8%
1998	1,263	1.8%	14.1%	39.4%	32.5%	9.3%	2.9%
1999	1,169	1.8%	13.2%	38.5%	31.9%	11.4%	3.3%
2000	1,087	2.5%	11.9%	36.1%	34.7%	10.8%	4.1%
2001	1,193	1.3%	12.8%	34.5%	35.5%	12.1%	3.7%
2002	1,429	4.4%	14.6%	31.6%	33.3%	12.2%	3.8%
2003	1,220	3.0%	14.0%	30.2%	33.4%	14.8%	4.7%
2004	1,235	2.8%	15.8%	27.9%	35.5%	13.8%	4.2%
2005	1,288	2.8%	15.8%	22.2%	38.8%	17.1%	3.3%
2006	1,338	3.1%	17.2%	23.2%	34.7%	16.4%	5.5%
2007	1,229	4.6%	19.6%	20.4%	33.4%	17.7%	4.1%
2008	1,168	4.2%	22.4%	19.6%	28.1%	18.8%	6.9%
2009	927	3.9%	23.9%	22.8%	27.6%	16.7%	5.1%
2010	941	4.9%	24.4%	17.7%	29.1%	19.3%	4.5%
2011	723	4.7%	32.6%	17.7%	21.7%	18.1%	5.1%
2012	695	5.9%	32.4%	17.4%	23.0%	14.2%	7.1%
2013	624	3.8%	31.4%	20.7%	19.9%	16.0%	8.2%
2014	603	3.2%	31.8%	24.9%	18.6%	15.8%	5.8%
2015	597	3.7%	35.0%	23.5%	17.3%	15.7%	4.9%
TOTAL	34,916	2.6%	21.5%	35.2%	26.8%	10.4%	3.4%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2015, Reported through 6/30/2016

Percent by Exposure Category of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) and with Reported Exposure Category by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	With Exposure Category					% Other Exposure
		No.	% MSM	% IDU	% MSM/IDU	% HET	
<1985	221	216	56.9%	27.8%	7.4%	3.7%	4.2%
1985	432	412	45.1%	33.3%	14.1%	5.3%	2.2%
1986	576	560	45.0%	38.4%	7.5%	7.0%	2.1%
1987	762	739	43.0%	41.0%	7.7%	6.8%	1.5%
1988	1,119	1,083	34.8%	47.5%	8.7%	7.9%	1.1%
1989	1,429	1,390	29.0%	51.5%	8.6%	9.2%	1.7%
1990	1,495	1,435	28.8%	52.7%	8.2%	9.5%	0.9%
1991	1,705	1,629	22.9%	57.3%	5.3%	13.3%	1.2%
1992	1,660	1,577	21.1%	60.0%	6.0%	12.1%	0.8%
1993	1,530	1,485	20.1%	58.2%	5.7%	15.4%	0.6%
1994	1,379	1,320	17.9%	58.6%	4.4%	18.4%	0.7%
1995	1,353	1,294	18.2%	56.2%	6.0%	19.3%	0.3%
1996	1,249	1,195	16.5%	57.3%	5.3%	20.5%	0.4%
1997	1,277	1,193	18.2%	55.2%	4.9%	21.5%	0.2%
1998	1,263	1,188	15.7%	55.6%	5.3%	23.1%	0.3%
1999	1,169	1,082	16.9%	54.3%	4.4%	24.2%	0.2%
2000	1,087	1,001	17.6%	48.0%	3.9%	30.5%	0.1%
2001	1,193	1,090	16.4%	52.6%	4.8%	26.1%	0.1%
2002	1,429	1,267	17.8%	44.6%	4.2%	33.3%	0.1%
2003	1,220	1,097	20.3%	44.7%	4.4%	30.4%	0.3%
2004	1,235	1,103	25.7%	39.3%	2.5%	32.0%	0.5%
2005	1,288	1,088	25.6%	37.0%	4.0%	33.3%	0.1%
2006	1,338	1,065	24.2%	34.8%	5.0%	35.5%	0.5%
2007	1,229	954	31.8%	29.9%	2.6%	35.4%	0.3%
2008	1,168	828	34.7%	25.6%	2.3%	37.4%	0.0%
2009	927	631	41.2%	16.6%	1.6%	40.4%	0.2%
2010	941	601	44.4%	14.3%	2.0%	38.6%	0.7%
2011	723	484	52.5%	10.3%	2.1%	35.1%	0.0%
2012	695	539	54.9%	9.5%	1.5%	33.8%	0.4%
2013	624	542	51.8%	7.4%	2.2%	38.4%	0.2%
2014	603	514	53.9%	4.9%	1.0%	40.3%	0.0%
2015*	597	392	56.1%	7.9%	1.3%	34.7%	0.0%
TOTAL	34,916	30,994	27.1%	44.3%	5.0%	22.9%	0.6%

* 2015 reported HIV exposure data are preliminary.

Section III – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								First CD4 Test Result	
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late HIV Diagnosis	% Late HIV Diagnosis	No. with Test	% with Test	Median Count
Anne Arundel	472,498	62	10.4%	13.1	49	79.0%	16	25.8%	50	80.6%	345
Baltimore City	523,202	353	59.1%	67.5	295	83.6%	79	22.4%	279	79.0%	384
Baltimore	701,736	133	22.3%	19.0	113	85.0%	33	24.8%	109	82.0%	384
Carroll	142,863	6	1.0%	4.2	6	100.0%	***	***	6	100.0%	141
Harford	210,992	12	2.0%	5.7	10	83.3%	***	***	8	66.7%	110
Howard	260,100	31	5.2%	11.9	29	93.5%	7	22.6%	25	80.6%	389
TOTAL	2,311,390	597	100.0%	25.8	502	84.1%	143	24.0%	477	79.9%	374

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Number and percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Anne Arundel	472,498	30	8.7%	6.3	3.8	56.7%
Baltimore City	523,202	213	61.7%	40.7	5.1	39.9%
Baltimore	701,736	73	21.2%	10.4	4.9	47.9%
Carroll	142,863	5	1.4%	3.5	1.2	80.0%
Harford	210,992	10	2.9%	4.7	2.9	80.0%
Howard	260,100	14	4.1%	5.4	6.0	42.9%
TOTAL	2,311,390	345	100.0%	14.9	4.9	44.9%

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Anne Arundel	472,498	546	6.8%	115.6	634	6.6%	134.2	1,180	6.7%	249.7	400
Baltimore City	523,202	5,626	70.2%	1,075.3	6,847	71.5%	1,308.7	12,473	70.9%	2,384.0	41
Baltimore	701,736	1,304	16.3%	185.8	1,512	15.8%	215.5	2,816	16.0%	401.3	249
Carroll	142,863	59	0.7%	41.3	71	0.7%	49.7	130	0.7%	91.0	1,098
Harford	210,992	191	2.4%	90.5	237	2.5%	112.3	428	2.4%	202.9	492
Howard	260,100	283	3.5%	108.8	270	2.8%	103.8	553	3.1%	212.6	470
TOTAL	2,311,390	8,009	100.0%	346.5	9,571	100.0%	414.1	17,580	100.0%	760.6	131

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 3A – Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction and Current Residence, Reported through 6/30/2016

ADULT/ADOLESCENT LIVING HIV CASES WITH OR WITHOUT AIDS DIAGNOSIS										
JURISDICTION OF RESIDENCE	POPULATION AGE 13+	Residence at HIV Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio	No.	% of Total	Rate	Ratio	
Anne Arundel	472,498	1,180	6.7%	249.7	400	1,175	7.3%	248.7	402	-0.4%
Baltimore City	523,202	12,473	70.9%	2,384.0	41	10,558	65.9%	2,018.0	49	-15.4%
Baltimore	701,736	2,816	16.0%	401.3	249	3,177	19.8%	452.7	220	12.8%
Carroll	142,863	130	0.7%	91.0	1,098	123	0.8%	86.1	1,161	-5.4%
Harford	210,992	428	2.4%	202.9	492	431	2.7%	204.3	489	0.7%
Howard	260,100	553	3.1%	212.6	470	567	3.5%	218.0	458	2.5%
TOTAL	2,311,390	17,580	100.0%	760.6	131	16,031	100.0%	693.6	144	-8.8%

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Residence: Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Current Residence: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-6/30/2016.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Percent Change: The extent to which a county gained or lost HIV/AIDS cases relative to the number of cases diagnosed in the county.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

Table 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Anne Arundel	1,180	683	57.9%	550	12.0%	13.8%	18.3%	55.9%
Baltimore City	12,473	7,100	56.9%	527	14.1%	15.4%	17.5%	53.0%
Baltimore	2,816	1,611	57.2%	564	12.0%	13.3%	16.6%	58.0%
Carroll	130	62	47.7%	600	17.7%	9.7%	9.7%	62.9%
Harford	428	256	59.8%	553	14.1%	15.6%	16.0%	54.3%
Howard	553	304	55.0%	564	12.8%	15.8%	14.8%	56.6%
TOTAL	17,580	10,016	57.0%	535	13.6%	15.0%	17.2%	54.2%

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Anne Arundel	1,180	642	54.4%	76.5%	12,048
Baltimore City	12,473	6,503	52.1%	70.8%	10,990
Baltimore	2,816	1,482	52.6%	78.1%	12,589
Carroll	130	64	49.2%	84.4%	45,252
Harford	428	238	55.6%	78.2%	15,814
Howard	553	308	55.7%	77.6%	30,990
TOTAL	17,580	9,237	52.5%	72.8%	11,800

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

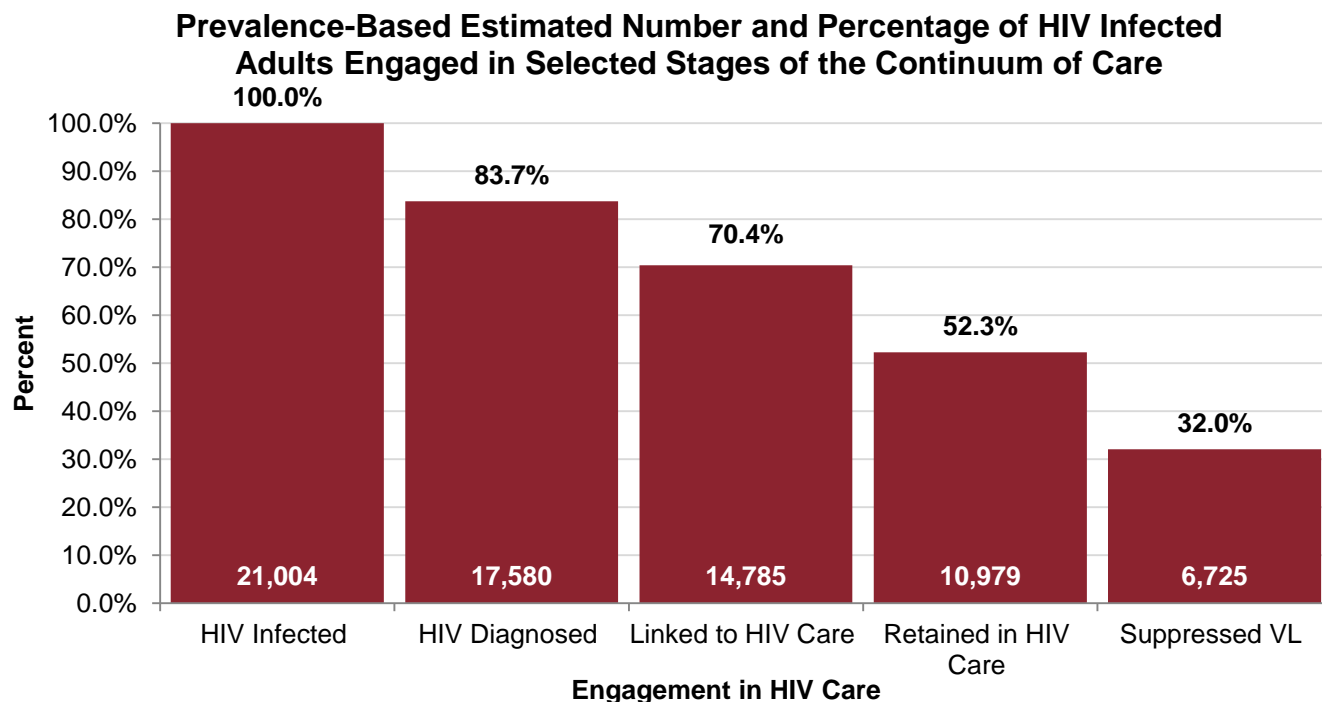
Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, Reported through 6/30/2016

In their 2011 article in *Clinical Infectious Diseases*, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care. The prevalence-based Central Region Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (16.3%)² to generate an estimated number of HIV infected persons in the Central Region. It then uses local data to describe the number and percentage of persons living with HIV in the Central Region who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Infected	21,004	100.0%
HIV Diagnosed	17,580	83.7%
Linked to HIV Care	14,785	70.4%
Retained in HIV Care	10,979	52.3%
Suppressed VL	6,725	32.0%

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (16.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

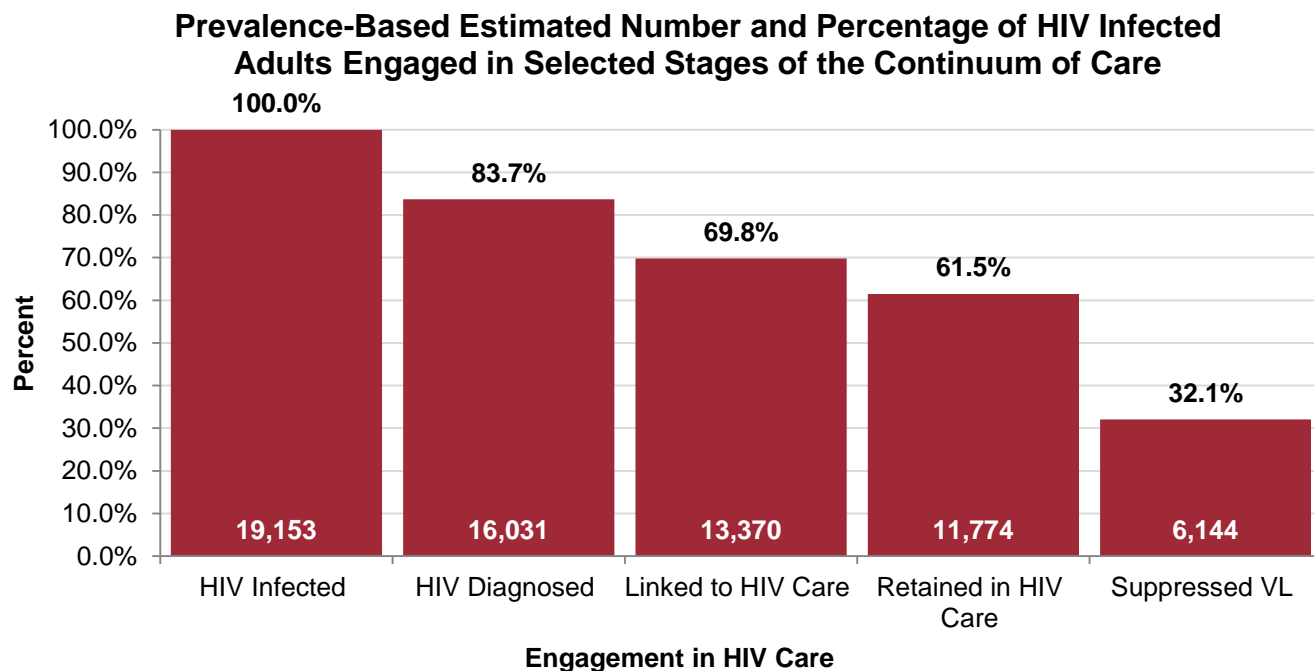
Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year, reported through 6/30/2016 of less than 200 copies per milliliter.

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test and Treat Strategies for Prevention of HIV Infection.” *Clin Infect Dis.* 2011; 52 (6): 7930-800.

² Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2014. *HIV Surveillance Supplemental Report* 2016;21(No. 4). <http://www.cdc.gov/hiv/library/reports/surveillance/>. Published July 2016.

Figure 7A – Prevalence-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, by Current Residence, Reported through 6/30/2016

The prevalence-based Central Region Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (16.3%)¹ to generate an estimated number of HIV infected persons in the Central Region. It then uses local data for current Central Region residents to describe the number and percentage of persons living with HIV in the Central Region who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Infected	19,153	100.0%
HIV Diagnosed	16,031	83.7%
Linked to HIV Care	13,370	69.8%
Retained in HIV Care	11,774	61.5%
Suppressed VL	6,144	32.1%

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (16.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

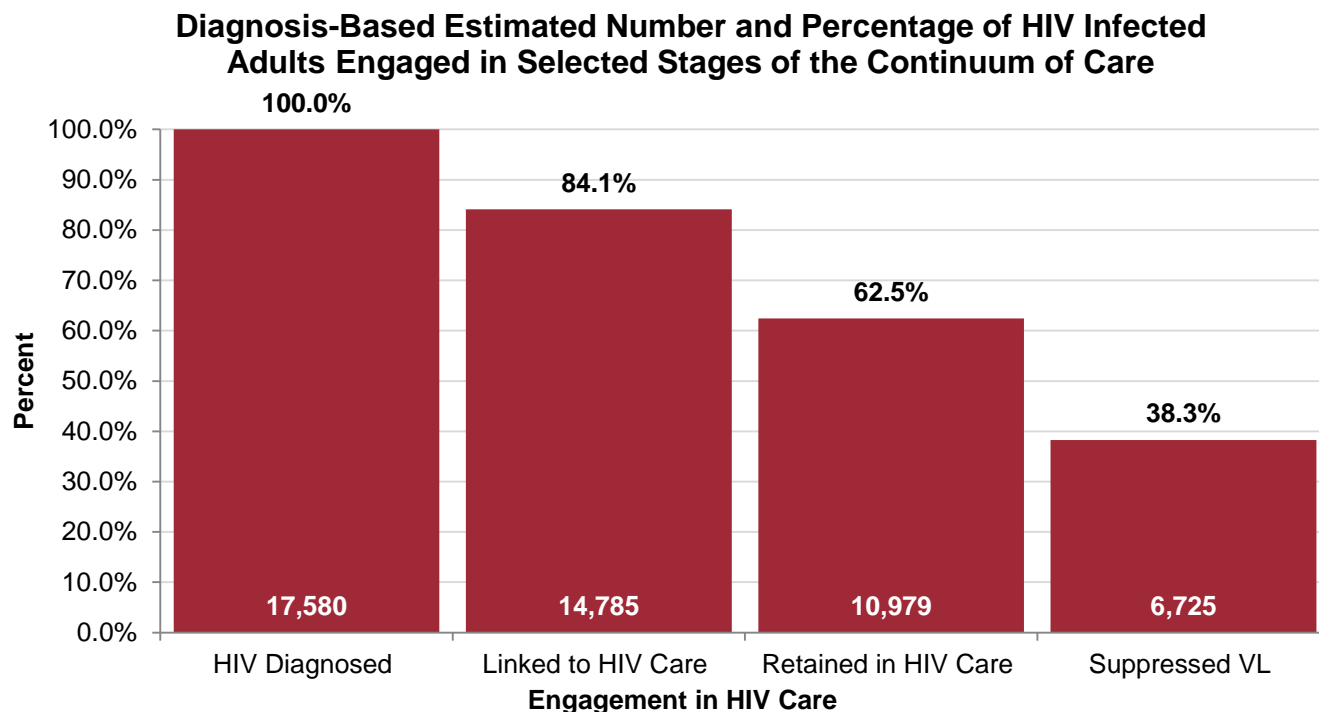
Suppressed Viral Load: HIV Diagnosed with the most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Mental Health and Hygiene at 401-767-5227.

¹ Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2014. *HIV Surveillance Supplemental Report* 2016;21(No. 4). <http://www.cdc.gov/hiv/library/reports/surveillance/>. Published July 2016.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, Reported through 6/30/2016

The diagnosis-based Central Region Engagement in HIV Care Cascade (below) uses local data to describe the number and percentage of persons diagnosed with HIV in the Central Region who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Diagnosed	17,580	100.0%
Linked to HIV Care	14,785	84.1%
Retained in HIV Care	10,979	62.5%
Suppressed VL	6,725	38.3%

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

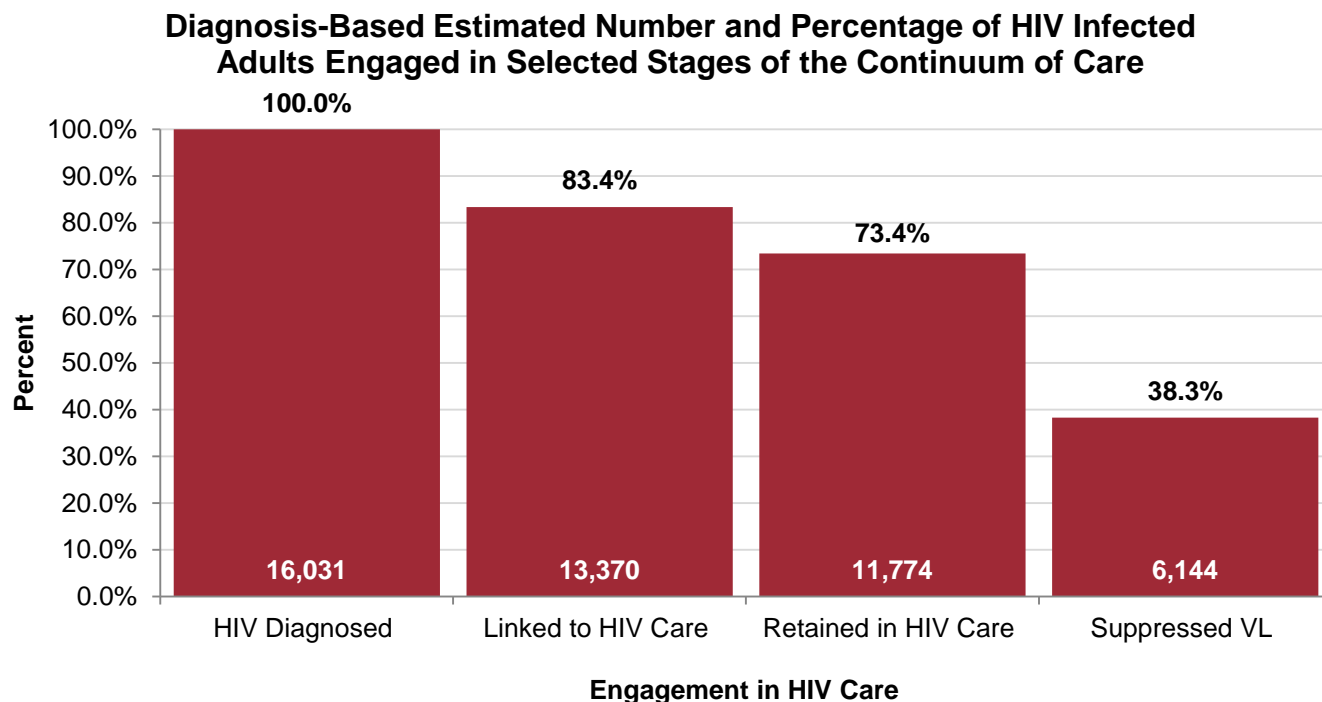
Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Figure 8A – Diagnosis-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, by Current Residence, Reported through 6/30/2016

The diagnosis-based Central Region Engagement in HIV Care Cascade (below) uses local data for current Central Region residents to describe the number and percentage of persons diagnosed with HIV in the Central Region who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Diagnosed	16,031	100.0%
Linked to HIV Care	13,370	83.4%
Retained in HIV Care	11,774	73.4%
Suppressed VL	6,144	38.3%

HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

Suppressed Viral Load: HIV Diagnosed with the most recent viral measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Mental Health and Hygiene at 401-767-5227.

Section IV – Cases by Age

Table 6 – HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 6/30/2016

AGE AT HIV DIAGNOSIS	POPULATION	REPORTED HIV DIAGNOSES								First CD4 Test Result	
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count
<5 (Pediatric)	167,514	0	0.0%	0.0	--	--	--	--	--	--	--
5-12 (Pediatric)	269,599	0	0.0%	0.0	--	--	--	--	--	--	--
13-19	240,497	22	3.7%	9.1	22	100.0%	***	***	19	86.4%	420
20-29	389,772	209	35.0%	53.6	177	84.7%	39	18.7%	171	81.8%	412
30-39	369,589	140	23.5%	37.9	115	82.1%	30	21.4%	111	79.3%	436
40-49	353,539	103	17.3%	29.1	84	81.6%	32	31.1%	78	75.7%	266
50-59	401,363	94	15.7%	23.4	76	80.9%	27	28.7%	72	76.6%	313
60+	556,630	29	4.9%	5.2	28	96.6%	***	***	26	89.7%	252
TOTAL	2,748,503	597	100.0%	21.7	502	84.1%	143	24.0%	477	79.9%	374

*** Data withheld due to low population counts and/or case counts

Table 7 – AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 6/30/2016

AGE AT AIDS DIAGNOSIS	POPULATION	REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
<5 (Pediatric)		0	0.0%	0.0	--	--
5-12 (Pediatric)		0	0.0%	0.0	--	--
13-19		2	0.6%	0.8	***	***
20-29		73	21.0%	18.7	2.7	61.6%
30-39		79	22.7%	21.4	4.9	39.2%
40-49		75	21.6%	21.2	5.8	41.3%
50-59		81	23.3%	20.2	5.6	40.7%
60+		38	10.9%	6.8	6.8	36.8%
TOTAL		348	100.0%	12.7	5.0	44.5%

*** Data withheld due to low population counts and/or case counts

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Table 8 – HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016

AGE ON 12/31/2015	POPULATION	LIVING HIV CASES WITHOUT AIDS			LIVING HIV CASES WITH AIDS			TOTAL LIVING HIV CASES			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
<5	167,514	2	0.0%	1.2	1	0.0%	0.6	3	0.0%	1.8	55,838
5-12	269,599	24	0.3%	8.9	3	0.0%	1.1	27	0.2%	10.0	9,985
13-19	240,497	83	1.0%	34.5	30	0.3%	12.5	113	0.6%	47.0	2,128
20-29	389,772	1,218	14.9%	312.5	527	5.4%	135.2	1,745	9.8%	447.7	223
30-39	369,589	1,548	19.0%	418.8	1,108	11.4%	299.8	2,656	14.8%	718.6	139
40-49	353,539	1,781	21.8%	503.8	2,342	24.1%	662.4	4,123	23.0%	1,166.2	85
50-59	401,363	2,376	29.1%	592.0	3,741	38.4%	932.1	6,117	34.2%	1,524.1	65
60+	556,630	1,128	13.8%	202.6	1,980	20.3%	355.7	3,108	17.4%	558.4	179
TOTAL	2,748,503	8,160	100.0%	296.9	9,732	100.0%	354.1	17,892	100.0%	651.0	153

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2015.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016

AGE ON 12/31/2015	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	39	25	64.1%	663	4.0%	20.0%	24.0%	52.0%
20-29	1,552	935	60.2%	522	12.1%	15.0%	19.6%	53.4%
30-39	2,641	1,423	53.9%	531	13.9%	14.7%	17.6%	53.8%
40-49	4,123	2,287	55.5%	521	15.1%	15.6%	17.0%	52.3%
50-59	6,117	3,587	58.6%	549	13.7%	14.7%	16.0%	55.5%
60+	3,108	1,759	56.6%	545	12.0%	14.8%	18.4%	54.9%
TOTAL	17,580	10,016	57.0%	535	13.6%	15.0%	17.2%	54.2%

Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016

AGE ON 12/31/2015	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
13-19	39	30	76.9%	30.0%	9,490
20-29	1,552	973	62.7%	55.1%	14,791
30-39	2,641	1,383	52.4%	64.7%	13,958
40-49	4,123	2,156	52.3%	72.6%	14,454
50-59	6,117	3,205	52.4%	77.5%	8,128
60+	3,108	1,490	47.9%	83.2%	5,012
TOTAL	17,580	9,237	52.5%	72.8%	11,800

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age on [date]: Age group of living cases on the specified date.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Section V – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2016

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis	First CD4 Test Result		
									No. with Test	% with Test	Median Count
Male	1,102,218	436	73.0%	39.6	366	83.9%	109	25.0%	346	79.4%	363
Female	1,209,173	161	27.0%	13.3	136	84.5%	34	21.1%	131	81.4%	420
TOTAL	2,311,390	597	100.0%	25.8	502	84.1%	143	24.0%	477	79.9%	374

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis	First CD4 Test Result		
									No. with Test	% with Test	Median Count
Hispanic	110,719	27	4.5%	24.4	23	85.2%	9	33.3%	23	85.2%	360
Non-Hispanic	2,200,672	570	95.5%	25.9	479	84.0%	134	23.5%	454	79.6%	375
American Indian/Alaska Native, only	5,847	2	0.3%	34.2	***	***	***	***	***	***	***
Asian, only	128,156	7	1.2%	5.5	***	***	***	***	***	***	***
Black, only	661,809	453	75.9%	68.4	371	81.9%	100	22.1%	347	76.6%	365
Native Hawaiian/Other Pacific Islander, only	1,229	0	0.0%	0.0	--	--	--	--	--	--	--
White only	1,365,098	94	15.7%	6.9	85	90.4%	27	28.7%	84	89.4%	435
Multiracial/Other	38,533	14	2.3%	36.3	14	100.0%	***	***	14	100.0%	339
TOTAL	2,311,390	597	100.0%	25.8	502	84.1%	143	24.0%	477	79.9%	374

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis	First CD4 Test Result		
									No. with Test	% with Test	Median Count
United States	2,021,803	488	81.7%	24.1	407	83.4%	117	24.0%	386	79.1%	376
Foreign-born	244,018	28	4.7%	11.5	25	89.3%	8	28.6%	26	92.9%	416
Africa	--	15	2.5%	--	13	86.7%	5	33.3%	13	86.7%	335
Asia	--	3	0.5%	--	***	***	***	***	***	***	***
Caribbean	--	1	0.2%	--	***	***	***	***	***	***	***
Central America	--	6	1.0%	--	5	83.3%	***	***	6	100.0%	380
Other	--	3	0.5%	--	***	***	***	***	***	***	***
Unknown	--	81	13.6%	--	70	86.4%	18	22.2%	65	80.2%	355
TOTAL	2,265,821	597	100.0%	26.3	502	84.1%	143	24.0%	477	79.9%	374

* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

** Population data by country of birth are from the 2014 American Community Survey

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 12 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2016

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Male	1,102,218	237	68.7%	21.5	4.3	50.6%
Female	1,209,173	108	31.3%	8.9	6.2	32.4%
TOTAL	2,311,390	345	100.0%	14.9	4.9	44.9%

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Hispanic	110,719	14	4.1%	12.6	3.2	57.1%
Non-Hispanic	2,200,672	331	95.9%	15.0	5.0	44.4%
American Indian/Alaska Native, only	5,847	2	0.6%	34.2	***	***
Asian, only	128,156	4	1.2%	3.1	***	***
Black, only	661,809	267	77.4%	40.3	5.2	40.8%
Native Hawaiian/Other Pacific Islander, only	1,229	0	0.0%	0.0	--	--
White only	1,365,098	46	13.3%	3.4	3.6	63.0%
Multiracial/Other	38,533	12	3.5%	31.1	5.0	41.7%
TOTAL	2,311,390	345	100.0%	14.9	4.9	44.9%

COUNTY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
United States	2,021,803	307	89.0%	15.2	5.3	41.7%
Foreign-born	244,018	14	4.1%	5.7	2.4	57.1%
Africa	--	6	1.7%	--	0.0	100.0%
Asia	--	2	0.6%	--	***	***
Caribbean	--	1	0.3%	--	***	***
Central America	--	5	1.4%	--	4.8	20.0%
Other	--	0	0.0%	--	--	--
Unknown	--	24	7.0%	--	1.4	79.2%
TOTAL	2,265,821	345	100.0%	15.2	4.9	44.9%

* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

** Population data by country of birth are from the 2014 American Community Survey

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 13 – Adult/Adolescent Living HIV Cases with and without AIDS by Sex at Birth, Race/Ethnicity, and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016

SEX AT BIRTH	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			Ratio (1 in X)
		No.	%	Rate	No.	%	Rate	No.	%	Rate	
Male	1,102,218	5,286	66.0%	479.6	6,108	63.8%	554.2	11,394	64.8%	1,033.7	96
Female	1,209,173	2,723	34.0%	225.2	3,463	36.2%	286.4	6,186	35.2%	511.6	195
TOTAL	2,311,390	8,009	100.0%	346.5	9,571	100.0%	414.1	17,580	100.0%	760.6	131

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			Ratio (1 in X)
		No.	%	Rate	No.	%	Rate	No.	%	Rate	
Hispanic	110,719	252	3.1%	227.6	349	3.6%	315.2	601	3.4%	542.8	184
Non-Hispanic	2,200,672	7,757	96.9%	352.5	9,222	96.4%	419.1	16,979	96.6%	771.5	129
American Indian/Alaska Native, only	5,847	8	0.1%	136.8	8	0.1%	136.8	16	0.1%	273.6	365
Asian, only	128,156	47	0.6%	36.7	24	0.3%	18.7	71	0.4%	55.4	1,805
Black, only	661,809	6,109	76.3%	923.1	7,367	77.0%	1,113.2	13,476	76.7%	2,036.2	49
Native Hawaiian/Other Pacific Islander, only	1,229	3	0.0%	244.2	0	0.0%	0.0	3	0.0%	244.2	409
White only	1,365,098	1,297	16.2%	95.0	1,329	13.9%	97.4	2,626	14.9%	192.4	519
Multiracial/Other	38,533	293	3.7%	760.4	494	5.2%	1,282.0	787	4.5%	2,042.4	48
TOTAL	2,311,390	8,009	100.0%	346.5	9,571	100.0%	414.1	17,580	100.0%	760.6	131

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			Ratio (1 in X)
		No.	%	Rate	No.	%	Rate	No.	%	Rate	
United States	2,021,803	7,442	92.9%	368.1	9,061	94.7%	448.2	16,503	93.9%	816.3	122
Foreign-born	244,018	209	2.6%	85.6	350	3.7%	143.4	559	3.2%	229.1	436
Africa	--	105	1.3%	--	181	1.9%	--	286	1.6%	--	--
Asia	--	22	0.3%	--	30	0.3%	--	52	0.3%	--	--
Caribbean	--	19	0.2%	--	33	0.3%	--	52	0.3%	--	--
Central America	--	32	0.4%	--	69	0.7%	--	101	0.6%	--	--
Other	--	31	0.4%	--	37	0.4%	--	68	0.4%	--	--
Unknown	--	358	4.5%	--	160	1.7%	--	518	2.9%	--	--
TOTAL	2,265,821	8,009	100.0%	353.5	9,571	100.0%	422.4	17,580	100.0%	775.9	128

* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

** Population data by country of birth are from the 2014 American Community Survey

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 14 –Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	11,394	6,185	54.3%	516	13.8%	15.8%	18.3%	52.1%
Female	6,186	3,831	61.9%	577	13.3%	13.6%	15.5%	57.6%
TOTAL	17,580	10,016	57.0%	535	13.6%	15.0%	17.2%	54.2%

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	601	342	56.9%	506	13.5%	14.9%	21.1%	50.6%
Non-Hispanic	16,979	9,674	57.0%	536	13.6%	15.0%	17.1%	54.3%
American Indian/Alaska Native, only	16	***	***	***	***	***	***	***
Asian, only	71	43	60.6%	496	7.0%	18.6%	25.6%	48.8%
Black, only	13,476	7,754	57.5%	529	13.9%	15.4%	17.3%	53.4%
Native Hawaiian/Other Pacific Islander, only	3	***	***	***	***	***	***	***
White only	2,626	1,325	50.5%	597	10.9%	11.8%	15.8%	61.4%
Multiracial/Other	787	548	69.6%	509	16.1%	16.8%	16.2%	50.9%
TOTAL	17,580	10,016	57.0%	535	13.6%	15.0%	17.2%	54.2%

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	16,503	9,386	56.9%	536	13.8%	14.9%	17.1%	54.3%
Foreign-born	559	309	55.3%	515	9.4%	15.5%	22.0%	53.1%
Africa	286	161	56.3%	532	9.9%	12.4%	21.7%	55.9%
Asia	52	28	53.8%	474	10.7%	21.4%	28.6%	39.3%
Caribbean	52	32	61.5%	554	6.3%	12.5%	18.8%	62.5%
Central America	101	56	55.4%	441	10.7%	25.0%	21.4%	42.9%
Other	68	32	47.1%	605	6.3%	12.5%	21.9%	59.4%
Unknown	518	321	62.0%	547	12.8%	15.9%	17.4%	53.9%
TOTAL	17,580	10,016	57.0%	535	13.6%	15.0%	17.2%	54.2%

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 15 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016

ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
SEX AT BIRTH	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	11,394	5,723	50.2%	74.1%	12,905
Female	6,186	3,514	56.8%	70.8%	10,233
TOTAL	17,580	9,237	52.5%	72.8%	11,800

ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
RACE/ETHNICITY	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	601	328	54.6%	76.8%	13,591
Non-Hispanic	16,979	8,909	52.5%	72.7%	11,756
American Indian/Alaska Native, only	16	***	***	***	***
Asian, only	71	39	54.9%	92.3%	69,710
Black, only	13,476	7,182	53.3%	70.7%	11,015
Native Hawaiian/Other Pacific Islander, only	3	***	***	***	***
White only	2,626	1,206	45.9%	82.8%	15,838
Multiracial/Other	787	477	60.6%	75.1%	19,498
TOTAL	17,580	9,237	52.5%	72.8%	11,800

ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
COUNTRY OF BIRTH	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
United States	16,503	8,631	52.3%	72.4%	11,749
Foreign-born	559	288	51.5%	85.4%	10,088
Africa	286	147	51.4%	85.7%	8,128
Asia	52	28	53.8%	89.3%	1,288
Caribbean	52	27	51.9%	88.9%	26,892
Central America	101	55	54.5%	80%	12,048
Other	68	31	45.6%	87.1%	2,385
Unknown	518	318	61.4%	73.6%	19,445
TOTAL	17,580	9,237	52.5%	72.8%	11,800

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

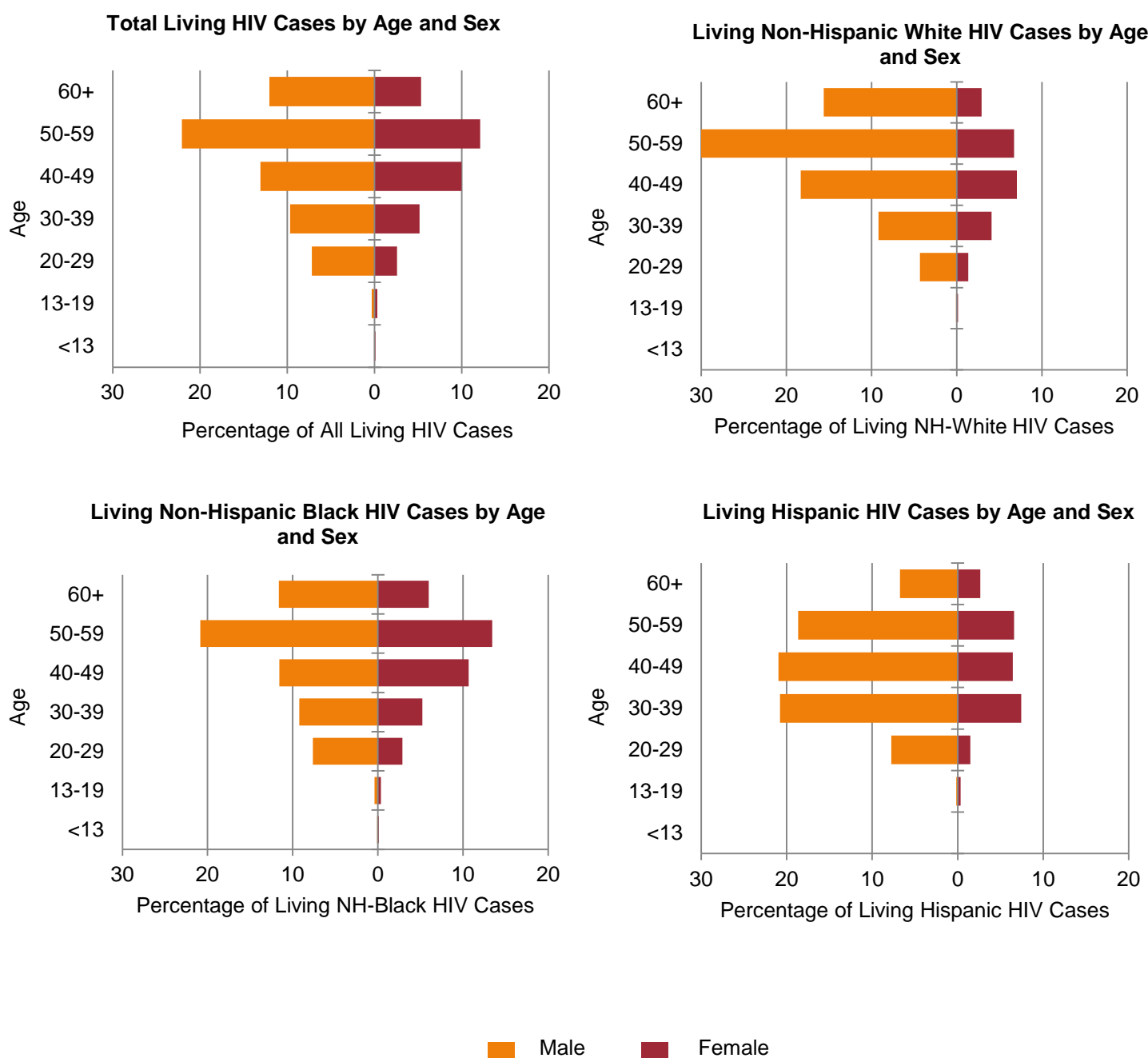
Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year, reported through 6/30/2016 of 200 copies per milliliter or greater.

Section VI – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016

MALES						
AGE ON 12/31/2015		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	20,492	71,523	105,077	25,690	222,782
	Cases	0	12	0	0	12
	Rate	0.0	16.8	0.0	0.0	5.4
	Ratio (1 in X)	--	5,960	--	--	18,565
13-19	Population	8,126	39,607	62,701	11,847	122,281
	Cases	1	54	2	1	58
	Rate	12.3	136.3	3.2	8.4	47.4
	Ratio (1 in X)	8,126	733	31,350	11,847	2,108
20-29	Population	13,408	59,935	104,633	16,504	194,480
	Cases	47	1,051	114	73	1,285
	Rate	350.5	1,753.6	109.0	442.3	660.7
	Ratio (1 in X)	285	57	917	226	151
30-39	Population	15,585	48,454	98,992	16,795	179,826
	Cases	126	1,270	243	94	1,733
	Rate	808.5	2,621.0	245.5	559.7	963.7
	Ratio (1 in X)	123	38	407	178	103
40-49	Population	10,316	47,509	97,332	14,489	169,646
	Cases	127	1,591	485	136	2,339
	Rate	1,231.1	3,348.8	498.3	938.6	1,378.8
	Ratio (1 in X)	81	29	200	106	72
50-59	Population	6,004	50,265	124,511	11,134	191,914
	Cases	113	2,867	799	170	3,949
	Rate	1,882.1	5,703.8	641.7	1,526.9	2,057.7
	Ratio (1 in X)	53	17	155	65	48
60+	Population	4,330	52,478	175,400	11,863	244,071
	Cases	41	1,598	413	103	2,155
	Rate	946.9	3,045.1	235.5	868.2	882.9
	Ratio (1 in X)	105	32	424	115	113
TOTAL MALES BY RACE/ETHNICITY	Population	78,261	369,771	768,646	108,322	1,325,000
	Cases	455	8,443	2,056	577	11,531
	Rate	581.4	2,283.3	267.5	532.7	870.3
	Ratio (1 in X)	172	43	373	187	114

Age on [date]: Age group of living cases on the specified date.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 17 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016

FEMALES						
AGE ON 12/31/2015		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	19,695	69,747	99,906	24,983	214,330
	Cases	0	17	0	1	18
	Rate	0.0	24.4	0.0	4.0	8.4
	Ratio (1 in X)	--	4,102	--	24,983	11,907
13-19	Population	7,763	39,166	59,348	11,939	118,217
	Cases	2	49	4	0	55
	Rate	25.8	125.1	6.7	0.0	46.5
	Ratio (1 in X)	3,881	799	14,837	--	2,149
20-29	Population	11,888	65,095	101,118	17,191	195,292
	Cases	9	397	36	18	460
	Rate	75.7	609.9	35.6	104.7	235.5
	Ratio (1 in X)	1,320	163	2,808	955	424
30-39	Population	13,155	59,824	97,760	19,024	189,763
	Cases	45	718	108	52	923
	Rate	342.1	1,200.2	110.5	273.3	486.4
	Ratio (1 in X)	292	83	905	365	205
40-49	Population	9,134	57,381	100,941	16,437	183,893
	Cases	39	1,463	187	95	1,784
	Rate	427.0	2,549.6	185.3	578.0	970.1
	Ratio (1 in X)	234	39	539	173	103
50-59	Population	5,630	62,037	129,366	12,416	209,449
	Cases	40	1,844	178	106	2,168
	Rate	710.5	2,972.4	137.6	853.7	1,035.1
	Ratio (1 in X)	140	33	726	117	96
60+	Population	5,379	80,059	212,995	14,126	312,559
	Cases	16	820	77	40	953
	Rate	297.5	1,024.2	36.2	283.2	304.9
	Ratio (1 in X)	336	97	2,766	353	327
TOTAL FEMALES BY RACE/ETHNICITY	Population	72,644	433,309	801,434	116,116	1,423,503
	Cases	151	5,308	590	312	6,361
	Rate	207.9	1,225.0	73.6	268.7	446.9
	Ratio (1 in X)	481	81	1,358	372	223

Age on [date]: Age group of living cases on the specified date.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VII – HIV Exposure Category

Table 18 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT HIV DIAGNOSES								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure**	392	100.0%	340	86.7%	87	22.2%	331	84.4%	391
Men who have Sex with Men (MSM)	220	56.1%	193	87.7%	42	19.1%	182	82.7%	413
Injection Drug Users (IDU)	31	7.9%	***	***	***	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	5	1.3%	***	***	***	***	***	***	***
Heterosexual Exposure (HET)	136	34.7%	120	88.2%	36	26.5%	120	88.2%	360
Other Exposure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	--
No Reported Exposure	205		162	79.0%	56	27.3%	146	71.2%	342
TOTAL	597		502	84.1%	143	24.0%	477	79.9%	374

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure**	290	100.0%	251	86.6%	62	21.4%	242	83.4%	387
Men who have Sex with Men (MSM)	220	75.9%	193	87.7%	42	19.1%	182	82.7%	413
Injection Drug Users (IDU)	17	5.9%	***	***	***	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	5	1.7%	***	***	***	***	***	***	***
Heterosexual Exposure (HET)	48	16.6%	42	87.5%	12	25.0%	42	87.5%	327
Other Exposure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	--
No Reported Exposure	146		115	78.8%	47	32.2%	104	71.2%	307
TOTAL	436		366	83.9%	109	25.0%	346	79.4%	363

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure**	102	100.0%	89	87.3%	25	24.5%	89	87.3%	424
Injection Drug Users (IDU)	14	13.7%	11	78.6%	***	***	11	78.6%	484
Heterosexual Exposure (HET)	88	86.3%	78	88.6%	***	***	78	88.6%	394
Other Exposure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	--
No Reported Exposure	59		47	79.7%	9	15.3%	42	71.2%	408
TOTAL	161		136	84.5%	34	21.1%	131	81.4%	420

* 2015 reported HIV exposure data are preliminary.

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 19 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT AIDS DIAGNOSES			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure*	264	100.0%	5.7	36.7%
Men who have Sex with Men (MSM)	98	37.1%	4.4	45.9%
Injection Drug Users (IDU)	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***
Heterosexual Exposure (HET)	95	36.0%	5.2	38.9%
Other Exposures	0	0.0%	--	--
No Reported Exposure**	81		2.3	71.6%
TOTAL	345		4.9	44.9%

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT AIDS DIAGNOSES			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure*	178	100.0%	5.2	40.4%
Men who have Sex with Men (MSM)	98	55.1%	4.4	45.9%
Injection Drug Users (IDU)	41	23.0%	8	26.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***
Heterosexual Exposure (HET)	***	***	***	***
Other Exposures	0	0.0%	--	--
No Reported Exposure	59		1.3	81.4%
TOTAL	237		4.3	50.6%

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT AIDS DIAGNOSES			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure*	86	100.0%	6.6	29.1%
Injection Drug Users (IDU)	26	30.2%	7.8	11.5%
Heterosexual Exposure (HET)	60	69.8%	6	36.7%
Other Exposures	0	0.0%	--	--
No Reported Exposure**	22		4.9	45.5%
TOTAL	108		6.2	32.4%

* 2015 reported HIV exposure data are preliminary.

** Includes 1 new AIDS diagnosis with Presumed Female Heterosexual exposure

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 20 – Adult/Adolescent Living HIV Cases with and without AIDS by Exposure Category and Sex at Birth, Alive on 12/31/2015 and Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS		ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS		ADULT/ADOLESCENT TOTAL LIVING HIV CASES	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	6,171	100.0%	8,730	100.0%	14,901	100.0%
Men who have Sex with Men (MSM)	2,512	40.7%	2,440	27.9%	4,952	33.2%
Injection Drug Users (IDU)	1,392	22.6%	3,046	34.9%	4,438	29.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	191	3.1%	438	5.0%	629	4.2%
Heterosexual Exposure (HET)	2,060	33.4%	2,768	31.7%	4,828	32.4%
Other Exposures	16	0.3%	38	0.4%	54	0.4%
No Reported Exposure*	1,838		841		2,679	
TOTAL	8,009		9,571		17,580	

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS		ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS		ADULT/ADOLESCENT TOTAL LIVING HIV CASES	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	4,183	100.0%	5,599	100.0%	9,782	100.0%
Men who have Sex with Men (MSM)	2,512	60.1%	2,440	43.6%	4,952	50.6%
Injection Drug Users (IDU)	822	19.7%	1,778	31.8%	2,600	26.6%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	191	4.6%	438	7.8%	629	6.4%
Heterosexual Exposure (HET)	650	15.5%	921	16.4%	1,571	16.1%
Other Exposures	8	0.2%	22	0.4%	30	0.3%
No Reported Exposure	1,103		509		1,612	
TOTAL	5,286		6,108		11,394	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS		ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS		ADULT/ADOLESCENT TOTAL LIVING HIV CASES	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	1,988	100.0%	3,131	100.0%	5,119	100.0%
Injection Drug Users (IDU)	570	28.7%	1,268	40.5%	1,838	35.9%
Heterosexual Exposure (HET)	1,410	70.9%	1,847	59.0%	3,257	63.6%
Other Exposures	8	0.4%	16	0.5%	24	0.5%
No Reported Exposure*	735		332		1,067	
TOTAL	2,723		3,463		6,186	

* Includes 58 HIV cases without AIDS and 28 HIV cases with AIDS with Presumed Female Heterosexual exposure

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 21 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2015 and Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	522	100.0%	11,329	100.0%	2,259	100.0%
Men who have Sex with Men (MSM)	230	44.1%	3,127	27.6%	1,291	57.1%
Injection Drug Users (IDU)	76	14.6%	3,707	32.7%	442	19.6%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	16	3.1%	488	4.3%	90	4.0%
Heterosexual Exposure (HET)	199	38.1%	3,975	35.1%	418	18.5%
Other Exposures	1	0.2%	32	0.3%	18	0.8%
No Reported Exposure*	79		2,147		367	
TOTAL	601		13,476		2,626	

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	392	100.0%	7,108	100.0%	1,766	100.0%
Men who have Sex with Men (MSM)	230	58.7%	3,127	44.0%	1,291	73.1%
Injection Drug Users (IDU)	51	13.0%	2,239	31.5%	213	12.1%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	16	4.1%	488	6.9%	90	5.1%
Heterosexual Exposure (HET)	95	24.2%	1,240	17.4%	158	8.9%
Other Exposures	0	0.0%	14	0.2%	14	0.8%
No Reported Exposure	62		1,218		278	
TOTAL	454		8,326		2,044	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	130	100.0%	4,221	100.0%	493	100.0%
Injection Drug Users (IDU)	25	19.2%	1,468	34.8%	229	46.5%
Heterosexual Exposure (HET)	104	80.0%	2,735	64.8%	260	52.7%
Other Exposures	1	0.8%	18	0.4%	4	0.8%
No Reported Exposure*	17		929		89	
TOTAL	147		5,150		582	

* Includes 2 Hispanic cases, 79 non-Hispanic black cases, and 4 non-Hispanic white cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2015 and Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
With Exposure	14,901	8,949	60.1%	536	13.5%	15.0%	17.2%	54.3%
Men who have Sex with Men (MSM)	4,952	2,760	55.7%	562	10.4%	13.6%	17.9%	58.1%
Injection Drug Users (IDU)	4,438	2,689	60.6%	482	17.0%	17.7%	17.3%	48.1%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	629	377	59.9%	500	16.4%	17.2%	16.2%	50.1%
Heterosexual Exposure (HET)	4,828	3,053	63.2%	560	12.7%	13.8%	16.4%	57.1%
Other Exposures	54	37	68.5%	445	21.6%	10.8%	32.4%	35.1%
No Reported Exposure*	2,679	1,100	41.1%	525	14.5%	14.5%	17.7%	53.3%
TOTAL	17,580	10,049	57.0%	535	13.6%	15.0%	17.2%	54.2%

* Includes 86 cases with Presumed Female Heterosexual exposure

Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2015 and Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Count
With Exposure	14,901	8,152	54.7%	73.2%	11,482
Men who have Sex with Men (MSM)	4,952	2,694	54.4%	76.1%	14,461
Injection Drug Users (IDU)	4,438	2,293	51.7%	69.3%	12,023
Men who have Sex with Men and Inject Drugs (MSM/IDU)	629	333	52.9%	74.5%	7,790
Heterosexual Exposure (HET)	4,828	2,800	58.0%	73.5%	8,649
Other Exposures	54	32	59.3%	65.6%	28,184
No Reported Exposure*	2,679	1,085	40.5%	70.2%	14,454
TOTAL	17,580	9,237	52.7%	72.8%	11,800

* Includes 86 cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter reported through 6/30/2016.

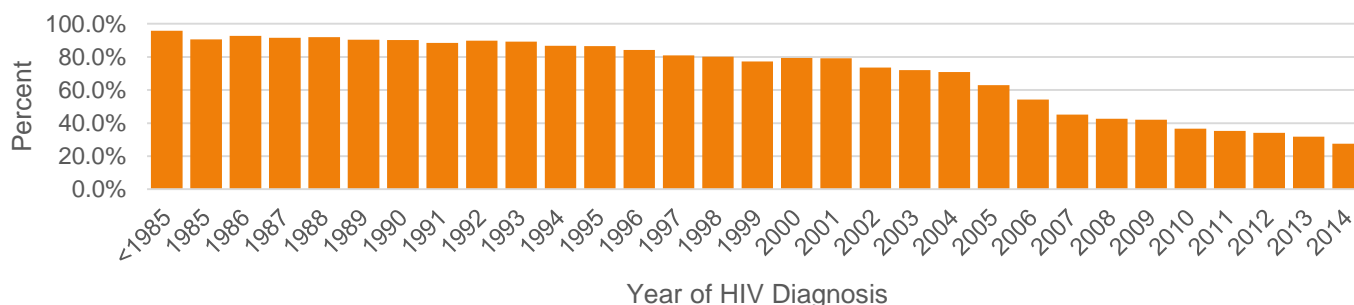
Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Section VIII – Disease Progression and Mortality

Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2014, Reported through 6/30/2016

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2014 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2015 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2015, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2014, as Reported by Name through 6/30/2016

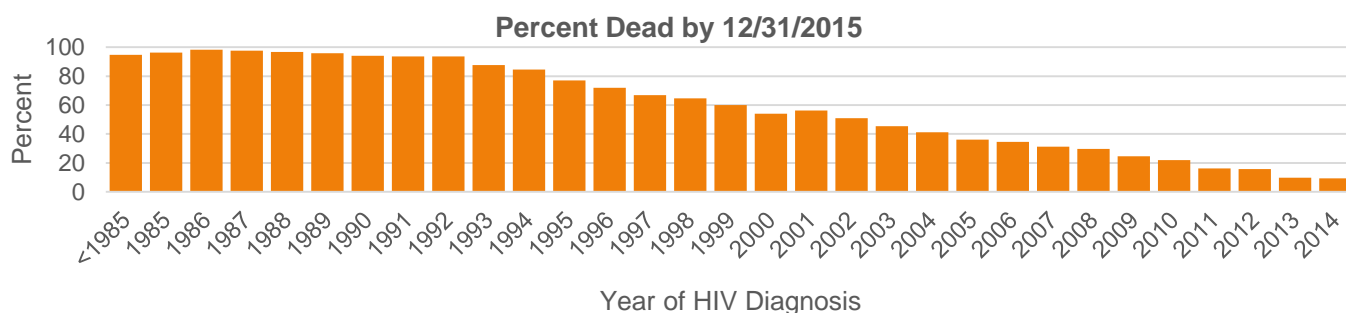
Percent with AIDS by 12/31/2015



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	221	212	95.9%	7.0	33.9%	33.9%	37.6%	67.9%
1985	432	392	90.7%	6.6	25.9%	27.3%	35.0%	75.0%
1986	576	534	92.7%	5.5	33.5%	34.2%	46.0%	79.2%
1987	762	698	91.6%	4.6	33.5%	36.7%	54.2%	82.4%
1988	1,119	1,028	91.9%	3.8	38.2%	42.0%	63.8%	85.5%
1989	1,429	1,292	90.4%	3.7	37.7%	43.2%	67.1%	83.1%
1990	1,495	1,350	90.3%	3.0	44.1%	50.8%	73.2%	84.8%
1991	1,705	1,507	88.4%	2.7	45.9%	55.4%	73.0%	82.9%
1992	1,660	1,490	89.8%	2.5	50.7%	59.0%	75.5%	84.1%
1993	1,530	1,367	89.3%	2.2	53.9%	61.9%	76.3%	85.2%
1994	1,379	1,195	86.7%	2.3	52.9%	60.7%	73.6%	81.8%
1995	1,353	1,171	86.5%	2.2	56.8%	62.4%	72.4%	82.0%
1996	1,249	1,053	84.3%	1.9	59.4%	64.2%	71.5%	80.3%
1997	1,277	1,035	81.0%	2.0	55.4%	60.1%	68.7%	76.9%
1998	1,263	1,012	80.1%	2.0	55.5%	59.1%	67.6%	75.9%
1999	1,169	902	77.2%	1.6	56.2%	60.2%	68.2%	74.5%
2000	1,087	863	79.4%	1.7	56.4%	60.7%	69.9%	76.7%
2001	1,193	944	79.1%	1.5	58.9%	62.9%	71.3%	76.4%
2002	1,429	1,050	73.5%	1.6	54.0%	57.4%	64.2%	70.9%
2003	1,220	880	72.1%	1.4	54.7%	58.1%	63.9%	70.2%
2004	1,235	876	70.9%	1.4	52.7%	56.5%	62.9%	69.2%
2005	1,288	812	63.0%	1.3	47.1%	49.7%	56.2%	--
2006	1,338	727	54.3%	1.5	38.6%	40.8%	48.0%	--
2007	1,229	555	45.2%	1.8	28.3%	31.3%	39.1%	--
2008	1,168	497	42.6%	1.5	27.9%	31.3%	38.8%	--
2009	927	389	42.0%	1.4	27.7%	30.6%	38.7%	--
2010	941	345	36.7%	1.1	25.7%	28.6%	--	--
2011	723	255	35.3%	0.7	27.1%	31.1%	--	--
2012	695	237	34.1%	0.6	28.2%	30.5%	--	--
2013	624	198	31.7%	0.3	29.3%	30.8%	--	--
2014	603	166	27.5%	0.3	25.0%	--	--	--
TOTAL	34,319	25,032	72.9%	2.4	45.0%	49.6%	60.3%	69.3%

Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2014, Reported through 6/30/2016

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/14 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2015 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2015, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2014, as Reported by Name through 6/30/2016



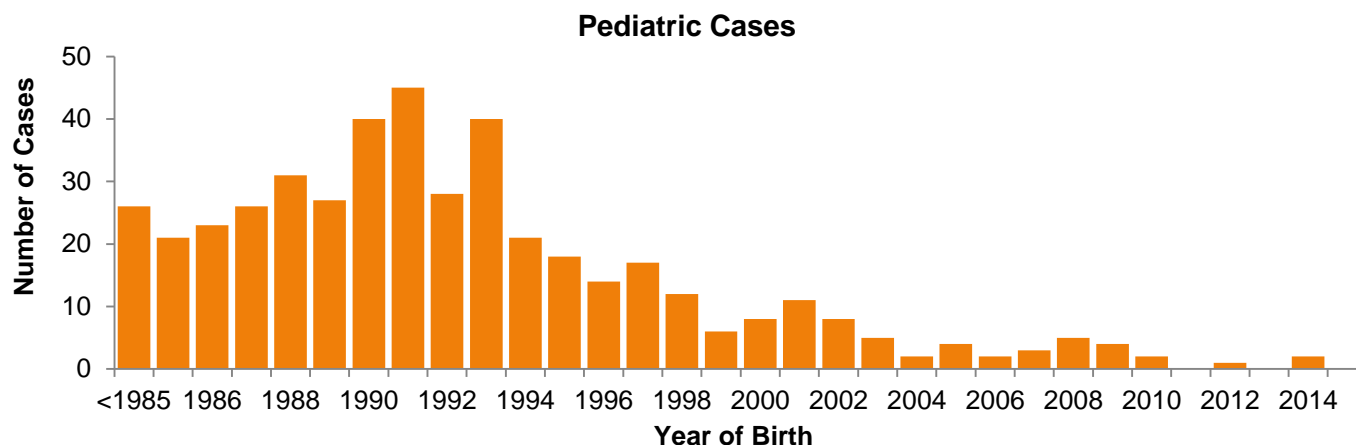
YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	77	73	94.8%	2.5	51.9%	32.5%	15.6%	13.0%
1985	105	101	96.2%	1.7	42.9%	21.9%	8.6%	6.7%
1986	174	171	98.3%	2.6	54.0%	35.6%	14.9%	8.6%
1987	264	258	97.7%	2.1	61.4%	33.3%	11.4%	5.3%
1988	435	421	96.8%	2.4	59.3%	39.3%	14.0%	6.7%
1989	553	530	95.8%	2.5	60.9%	39.4%	15.7%	8.1%
1990	781	735	94.1%	2.8	65.7%	46.4%	20.2%	11.8%
1991	972	910	93.6%	2.8	67.6%	46.1%	17.9%	12.0%
1992	1,341	1,256	93.7%	3.1	70.2%	48.7%	20.1%	13.9%
1993	1,547	1,357	87.7%	3.6	77.5%	55.1%	32.3%	20.8%
1994	1,380	1,168	84.6%	3.9	77.1%	58.3%	38.0%	24.1%
1995	1,395	1,076	77.1%	4.6	78.3%	66.1%	48.9%	34.9%
1996	1,302	937	72.0%	5.1	81.8%	74.6%	57.2%	41.4%
1997	1,124	752	66.9%	5.0	85.0%	77.0%	60.4%	44.2%
1998	1,030	666	64.7%	5.3	87.0%	80.0%	63.8%	46.9%
1999	1,010	605	59.9%	4.8	87.1%	80.0%	64.5%	48.9%
2000	883	476	53.9%	4.4	85.6%	80.2%	65.2%	52.9%
2001	1,010	568	56.2%	4.1	85.4%	76.6%	62.2%	50.0%
2002	1,069	543	50.8%	4.6	87.9%	81.9%	69.8%	56.7%
2003	943	427	45.3%	3.3	83.6%	78.2%	66.8%	57.6%
2004	964	397	41.2%	3.6	87.0%	82.5%	71.6%	61.2%
2005	900	324	36.0%	3.2	88.4%	83.7%	74.0%	64.7%
2006	814	282	34.6%	3.1	88.2%	83.4%	74.1%	--
2007	601	188	31.3%	2.7	88.4%	84.9%	76.0%	--
2008	592	175	29.6%	2.3	88.2%	83.8%	75.0%	--
2009	517	127	24.6%	2.2	90.3%	86.8%	78.1%	--
2010	561	123	21.9%	1.8	89.8%	86.6%	--	--
2011	463	75	16.2%	1.8	93.7%	90.7%	--	--
2012	498	78	15.7%	1.2	90.8%	88.6%	--	--
2013	458	45	9.8%	0.9	94.3%	90.8%	--	--
2014*	326	30	9.2%	0.5	92.3%	--	--	--
TOTAL	24,089	14,874	61.7%	3.7	81.1%	70.3%	54.3%	44.3%

* 2014 reported AIDS deaths are preliminary

Section IX – Pediatric Cases

Figure 12 – Trends in Pediatric HIV Cases, 1985-2015, Reported through 6/30/2016

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2015, as Reported by Name through 6/30/2016



YEAR	PEDIATRIC REPORTED HIV DIAGNOSES				PEDIATRIC TOTAL LIVING HIV CASES
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on 12/31 of Each Year
<1985	26	2	1	0	
1985	21	8	5	1	10
1986	23	7	6	4	13
1987	26	16	10	5	24
1988	31	22	14	4	43
1989	27	28	19	5	66
1990	40	37	16	5	99
1991	45	37	26	8	127
1992	28	45	28	9	163
1993	40	45	25	12	196
1994	21	30	20	12	213
1995	18	19	14	12	220
1996	14	21	12	14	228
1997	17	10	7	6	232
1998	12	16	9	3	245
1999	6	15	8	5	254
2000	8	7	2	0	261
2001	11	9	8	3	266
2002	8	9	6	4	271
2003	5	2	1	2	271
2004	2	5	2	3	273
2005	4	1	1	0	274
2006	2	5	3	2	278
2007	3	33	5	4	307
2008	5	8	7	3	312
2009	4	6	3	2	316
2010	2	2	7	4	314
2011	0	2	4	4	313
2012	1	2	3	3	312
2013	0	1	10	1	313
2014	2	2	4	0	315
2015	0	0	3	3	312
TOTAL	452	452	289	143	

Table 24 – Pediatric HIV Total Living HIV Cases, Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Anne Arundel	22	7.1%
Baltimore City	217	69.6%
Baltimore	49	15.7%
Carroll	3	1.0%
Harford	14	4.5%
Howard	7	2.2%
TOTAL	312	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis for pediatric reported HIV diagnoses, and jurisdiction of residence at later of time of initial HIV diagnosis or initial AIDS diagnosis for pediatric total living HIV cases.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 25 – Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016

SEX AT BIRTH	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Male	137	43.9%
Female	175	56.1%
TOTAL	312	100.0%

RACE/ETHNICITY	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Hispanic	5	1.6%
Non-Hispanic	307	98.4%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	1	0.3%
Black, only	275	88.1%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	20	6.4%
Multiracial/Other	11	3.5%
TOTAL	312	100.0%

Pediatric Reported HIV Diagnoses: Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Confirmed Perinatal HIV Transmissions: Reported babies born to an HIV positive mother, with a confirmed HIV diagnosis.

Current Residence: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-6/30/2016.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Jurisdiction of Residence: Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Live Births: Babies born alive in the general population.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median: The measure of central location, which divides a set of data into two equal parts.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Pediatric Reported HIV Diagnoses: Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2015.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Perinatal HIV Transmission Rate: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Population: Population estimate for 7/1/2015.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported Perinatal HIV Exposures: Reported babies born to an HIV positive mother during the specified year.

Retained in HIV Care: HIV Diagnosed with a CD4 test result measured in the specified year, reported through 6/30/2016.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of childbearing age (13-49 years old) on December 31st of the specified year